British Phycological Journal

Index and Contents to Volume 11
March — December 1976

Published for the British
Phycological Society by Academic Press
London New York San Francisco

564
7

Digitized by the Internet Archive
in 2023 with funding from
Kahle/Austin Foundation

https://archive.org/details/european-journal-of-phycology_march-december-1976_11_indexcontents

BRITISH PHYCOLOGICAL JOURNAL
CONTENTS AND INDEX FOR
VOLUME 11

The Council of the British Phycological Society wish it to be understood that they do not accept responsibility for the accuracy of statements published in the *Journal*, excepting when those statements are contained in an official report of the Council.

Number 1, pp. 1–100 11 March 1976
Number 2, pp. 101–202 2 June 1976
Number 3, pp. 203–292 13 September 1976
Number 4, pp. 293–426 1 December 1976

Page

ABBOTT, I. A.
On the red algal genera *Grallatoria* Howe and *Callithamniella* Feldmann-Mazoyer (Ceramiales) 143

ARCHIBALD, R. E. M., *see* SCHOEMAN, ARCHIBALD and BARLOW 251

BARLOW, D. J., *see* SCHOEMAN, ARCHIBALD and BARLOW 251

BATTARBEE, R. W.
Coscinodiscus lacustris in Lough Neagh—a case of mistaken identity? 305

BOTTOMLEY, P. J. and STEWART, W. D. P.
The measurement and significance of ATP pools in filamentous blue-green algae 69

BROADY, P. A.
Six new species of terrestrial algae from Signy Island, South Orkney Islands, Antarctica 387

CALVERT, H. E.
Culture studies on some Florida species of *Caulpera*: morphological responses to reduced illumination 203

CLARKE, K. J. and PENNICK, N. C.
The occurrence of body scales in *Oxyrrhis marina* Dujardin 345

DAWES, C. J., *see* MOON and DAWES 165

DIXON, P. S., *see* O'BRIEN and DIXON 115

FARNHAM, W. F. and FLETCHER, R. L.
The occurrence of a *Porphyrodiscus simulans* Batt. phase in the life history of *Ahnfeltia plicata* (Huds.) Fries 183

FLETCHER, R. L., *see* FARNHAM and FLETCHER 183

FOY, R. H., GIBSON, C. E. and SMITH, R. V.
The influence of daylength, light intensity and temperature on the growth rates of planktonic blue-green algae 151

FRYXELL, G. A.
The position of the labiate process in the diatom genus *Skeletonema* 93

GARVIN, T. W., *see* GOUGH, GARVIN and WOELKERLING 245

GEORGE, E. A.
A guide to algal keys (excluding seaweeds) 49

GIBSON, C. E., *see* FOY, GIBSON and SMITH 151

GITTINS, B. T.
A littoral artificial substrate 383

GRAHAME, E. S.
The occurrence of *Lagenisma coscinodisci* in *Palmeria hardmaniana* from Kingston Harbour, Jamaica 57

GOUGH, S. B., GARVIN, T. W. and WOELKERLING, W. J.
On processing field and culture samples of desmids (Desmidiales, Chlorophyta) for scanning electron microscopy 245

HAPPEY-WOOD, C. M. (Mrs. D. G. E. WOOD)
Vertical migration patterns in phytoplankton of mixed species composition 355

HAPPEY-WOOD, C. M. (Mrs. D. E. G. WOOD)
Influence of stratification on the growth of planktonic Chlorophyceae in a small body of water 371

HARDING, J. P. C. and WHITTON, B.A.
Resistance to zinc of *Stigeoclonium tenue* in the field and the laboratory 417

HARGRAVES, J. W. and WHITTON, B. A.
Effect of pH on growth of acid stream algae 215

HASLE, G. R.
Examination of diatom material: *Nitzschia delicatissma* Cleve, *Thalassiosira minuscula* Krasske, and *Cyclotella nana* Hustedt 101

HIDE, D., *see* HORNSEY and HIDE 63

HIDE, D., *see* HORNSEY and HIDE 175

HORNSEY, I. S. and HIDE, D.
The production of antimicrobial compounds by British marine algae. II. Seasonal variation in production of antibiotics 63

HORNSEY, I. S. and HIDE, D.
The production of antimicrobial compounds by British marine algae. III. Distribution of antimicrobial activity within the algal thallus 175

JOHN, D. M., *see* KRAFT and JOHN 331

KAIN, J. M. (Mrs. N. S. JONES)
New and interesting marine algae from the Shetland Isles. II. Hollow and solid stiped *Laminaria* (Simplices) 1

KIRBY, S. M. and WHITTON, B.A.
Uses of coded data in study of *Calothrix* and *Rivularia* 407

KRAFT, G. T. and JOHN, D. M.
The morphology and ecology of *Nemastoma* and *Predaea* species (Nemastomataceae, Rhodophyta) from Ghana 331

KREMER, B. P.
Distribution and biochemistry of alditols in the genus *Pelvetia* (Phaeophyceae, Fucales) 239

LING, H. U. and TYLER, P. A.
Meiosis, polyploidy and taxonomy of the *Pleurotenium mamillatum* complex (Desmidiaceae) 315

MANTON, I., SUTHERLAND, J. and MCCULLY, M.
Fine structural observations on coccolithophorids from South Alaska in the genera *Pappsphaera* Tangen and *Pappomonas* Manton & Oates 225

MARSLAND, A., *see* MOSS and MARSLAND 309

MCCULLY, M., *see* MANTON, SUTHERLAND and MCCULLY 225

MOON, R. E. and DAWES, C. J.
Pigment changes and photosynthetic rates under selected wavelengths in the growing tips of *Eucheuma isiforme* (C. Agardh) J. Agardh var *denudatum* Cheney during vegetative growth 165

MOSS, B. and MARSLAND, A.
Regeneration of *Enteromorpha* 309

NORTON, T. A.
The marine algae of the eastern border counties of Scotland 19

O'BRIEN, P. Y. and DIXON, P. S.
The effects of oils and oil components on algae: a review 115

PENNICK, N. C., *see* CLARKE and PENNICK 345

PIENAAR, R. N.
The microanatomy of *Sphaleromantis marina* sp. nov. (Chrysophyceae) 83

REYNOLDS, C. S.
Sinking movements of phytoplankton indicated by a simple trapping method. I. A *Fragilaria* population 279

REYNOLDS, C. S.
Sinking movements of phytoplankton indicated by a simple trapping method. II. Vertical activity ranges in a stratified lake 293
REYNOLDS, N.
Observations on *Salpingoeca spinifera* Throndsen and *S. minor* sp. nov. (Craspedophyceae) 13
SCHOEMAN, F. R., ARCHIBALD, R. E. M. and BARLOW, D. J.
Structural observations and notes on the freshwater diatom *Navicula pelliculosa* (Brébisson ex Kützing) Hilse 251
SMITH, R. V., *see* FOY, GIBSON and SMITH 151
SOUTH, G. R. and WHITTICK, A.
Aspects of the life history of *Rhodophysema elegans* (Rhodophyta, Peyssonneliaceae) 349
STEWART, W. D. P., *see* BOTTOMLEY and STEWART 69
SUTHERLAND, J., *see* MANTON, SUTHERLAND and MCCULLY 225
TAKAHASHI, E.
Studies on genera *Mallomonas* and *Synura* and other plankton in freshwater with the electron microscope. X. The genus *Paraphysomonas* (Chrysophyceae) 39
TYLER, P. A., *see* LING and TYLER 315
WHITTICK, A., *see* SOUTH and WHITTICK 349
WHITTLE, S. J.
The major chloroplast pigments of *Chlorobotrys regularis* (West) Bohlin (Eustigmatophyceae) and *Ophiocytium majus* Naegeli (Xanthophyceae) 111
WHITTON, B. A., *see* HARDING and WHITTON 417
WHITTON, B. A., *see* HARGREAVES and WHITTON 215
WHITTON, B. A., *see* KIRKBY and WHITTON 407
WILLÉN, E.
A simplified method of phytoplankton counting 265
WOEKERLING, W. J., *see* GOUGH, GARVIN and WOEKERLING 245
YARISH, C.
Polymorphism of selected marine Chaetopheraceae (Chlorophyta) 29

ABSTRACTS OF PAPERS

presented to the British Phycological Society 1976

Page

BELL, D. and EATON, J. W.
The growth of algal epiphytes of *Elodea canadensis* Michx. 191
BOLTON, J. J.
Salinity tolerances in populations of *Pilayella littoralis* (L.) Kjellm 191
BONEY, A. D.
Carpospore liberation by *Rhodymenia pertusa* 191
BOWKER, D. W. and DENNY, P.
Grazing of algal by fish in a tropical lake 192
CASSELTON, P. J. and AHMAD, M.
Effect of glucose analogues on glucose metabolism of *Prototheca zopfii* Krüger 192
CHAPMAN, A. R. O.
Nitrate–nitrogen and the seasonal growth of *Laminaria* 192
CODD, G. A. and STEWART, W. D. P.
In vitro studies on the polyhedral bodies of the blue-green alga *Anabaena cylindrica* 193
COLES, S. M.
Benthic microalgal populations in the Wash 193
GARBARY, D.
Life-forms of algae and their distribution 193

GITTINS, B. T. and DIXON, P. S.
Biology of *Lithothrix aspergillum* 194
GUEST, B. M. and FAY, P.
The importance of organic substances to freshwater blue-green algae 194
HAPPEY-WOOD, C. M. (Mrs. D. E. G. WOOD), ONG, M. H. and RICHARDS, M. C.
Patterns of distribution in phytoplankton populations 195
HASLE, G.
Examination of diatom type material (See also page 101) 195
HIPKIN, C. R. and SYRETT, P. J.
The effects of nitrogen starvation on the enzymes of nitrogen and carbohydrate metabolism in *Ankistrodesmus braunii* 195
HRUBY, T. and NORTON, T. A.
Algal recolonization of cleared patches on a rocky shore in the Firth of Clyde 195
KANE, D. F. and JONES, E. B. G.
The effects of secondary sewage effluent on the germination and subsequent growth of *Enteromorpha* sp. zoospores 196
LEADBEATER, B. S. C.
Phagotrophic feeding in some marine flagellates 196
MCGRORY, C. B.
A non-siliceous component of Chrysophyte scales 197
NICHOLSON, R. J. and FAY, P.
Planktonic interrelations in St. James' Park Lake, London 197
NORTON, T. A.
Why is *Sargassum muticum* so invasive? 197
PEEL, M. C.
Nuclear ultrastructure during sporogenesis in *Corallina officinalis* L. and *Jania rubens* (L.) Lamour 198
ROTHER, J. A. and FAY, P.
Distribution and reproduction of planktonic blue-green algae of the Shropshire Meres 198
SALLAL, A.-K. J. and CODD, G. A.
Glycollate oxidation by thylakoid membrane fractions from blue-green algae 198
SANTORE, U. J. and GREENWOOD, A. D.
The ultrastructure of *Hemiselmis rufescens* Parke 199
TAYLOR, R. and PEARSON, H. W.
Nitrogen fixation in the Leeds–Liverpool canal 199
THOMAS, R., HIPKIN, C. R. and SYRETT, P. J.
Interaction of nitrogen assimulation with photosynthetic carbon fixation in nitrogen-deficient cultures of *Chlorella fusca* 200
TOMLINSON, D. L. and PEARSON, H. W.
The possible ecological significance of sulphide on the growth of non-heterocystous cyanophytes 200
WALSBY, A. E. and BOOKER, M. J.
The physiology of water–bloom formation by planktonic blue-green algae 200
WEST, J. A. and POLANSHEK, A. R.
The life history of *Petrocelis cruentia* 200
WHITTICK, A. and HOOPER, R. G.
The distribution and reproductive biology of *Antithamnion cruciatum* (C.Ag.)Nag. at its northern limits in the Western Atlantic 201
WHITTLE, S. J.
Chlorophyll *c* in the Xanthophyceae 201
XYPOLYTA, A. and WALSBY, A. E.
Thalassiosira's parachute 201

BOOK REVIEWS

Page

Phytoplankton. By A. D. Boney 12

Algae: Form and Function. By G. S. Venkataraman, S. K. Goyal, B. D. Kaushik and P. Roychoudhury 18

Biology of the Rhodophyta. By P. S. Dixon 202

A Synopsis of North American Desmids Part II *Desmidiaceae: Placodermae* Section I. By G. W. Prescott, H. T. Croasdale and W. C. Vinyard 224

Algal Cultures and Phytoplankton Ecology. By G. E. Fogg 304

Lichenology: Progress and Problems. By D. M. Brown, D. L. Hawsworth and R. H. Bailey (Editors) 382